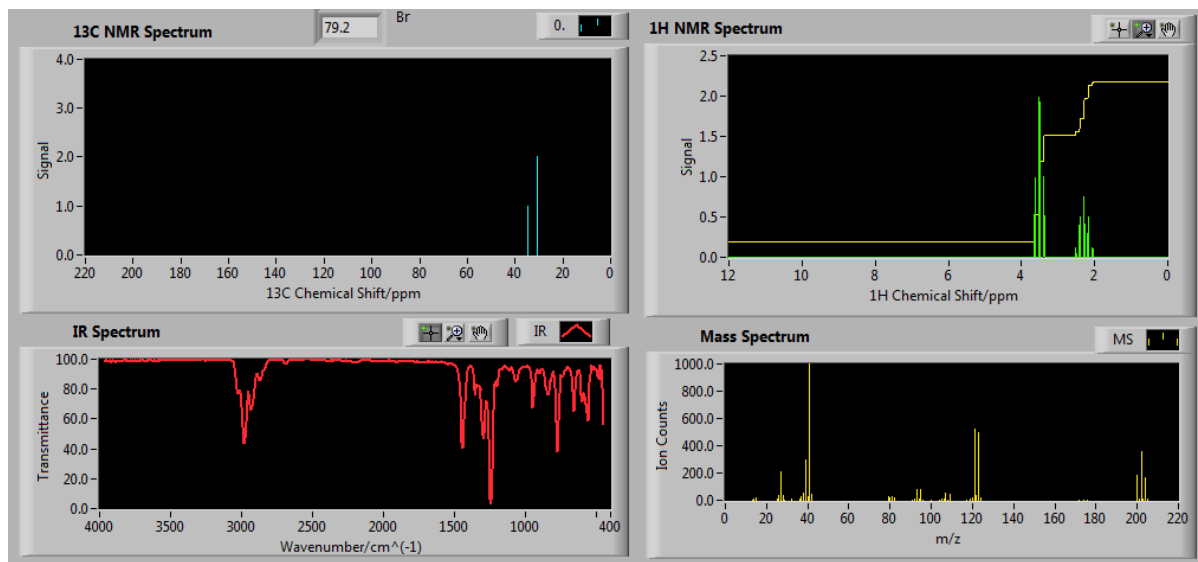


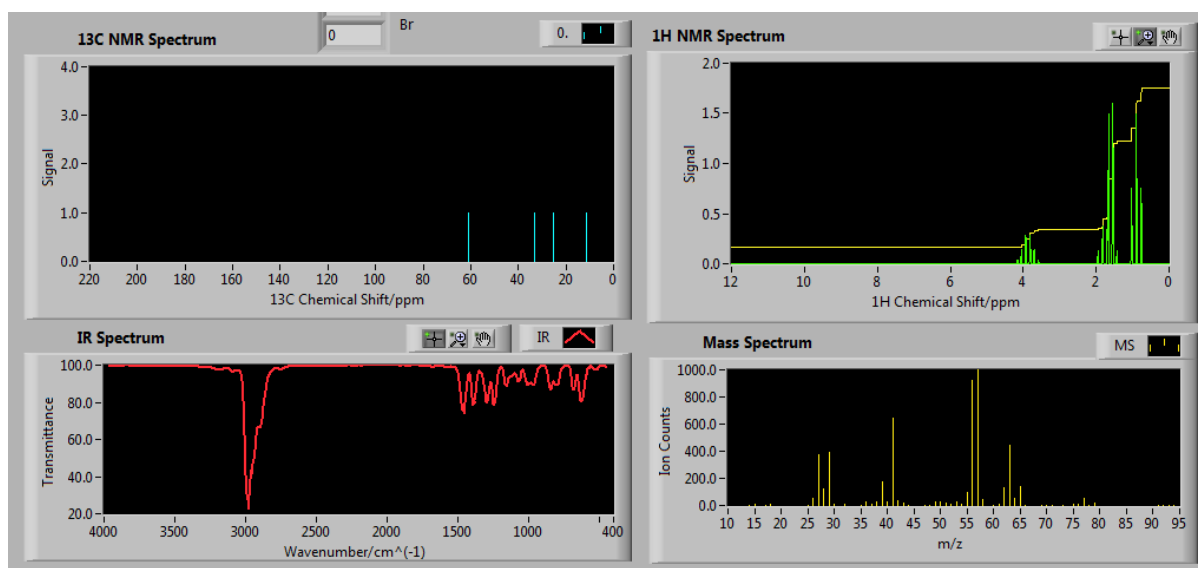
# SPECTROSCOPY – COMPOUND IDENTIFICATION (SOURCE: CHEMICAL DETECTIVES)

## TEST 1 (LEVEL = MEDIUM)

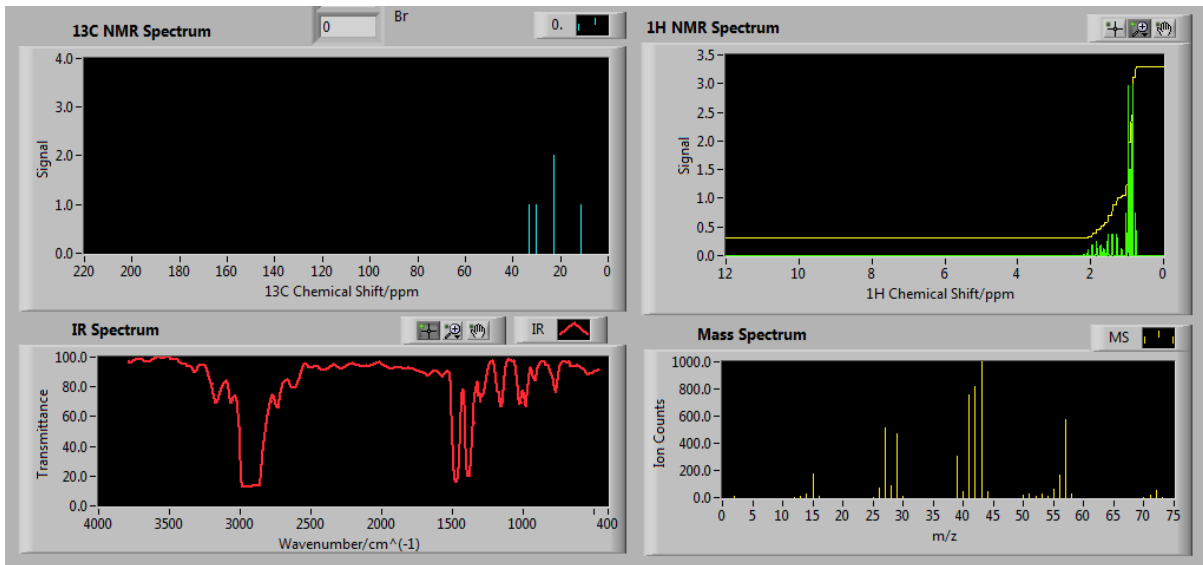
CHEMICAL NUMBER = 2



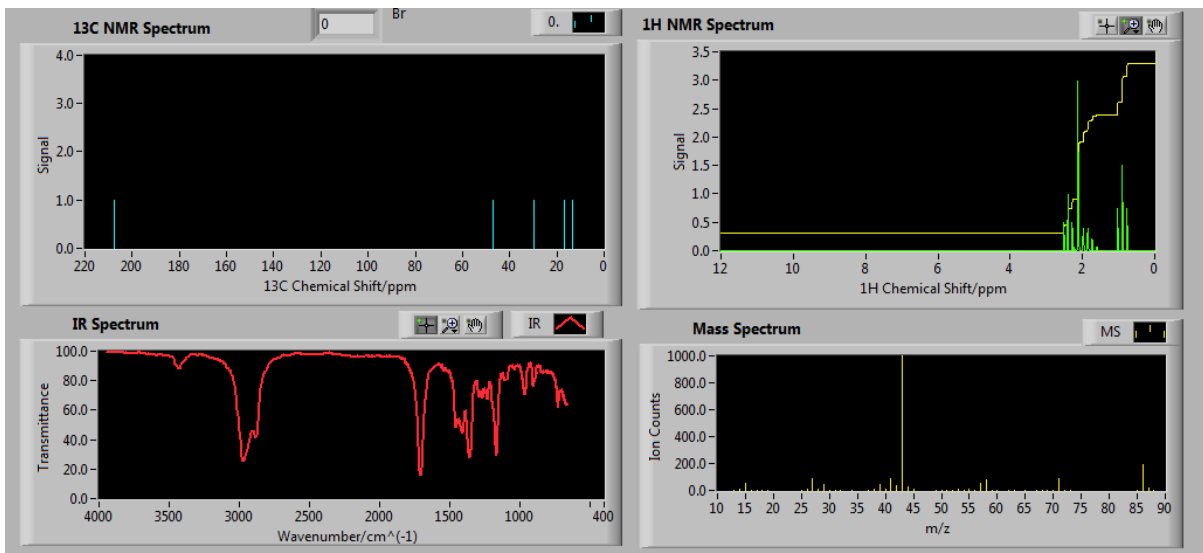
CHEMICAL NUMBER = 14



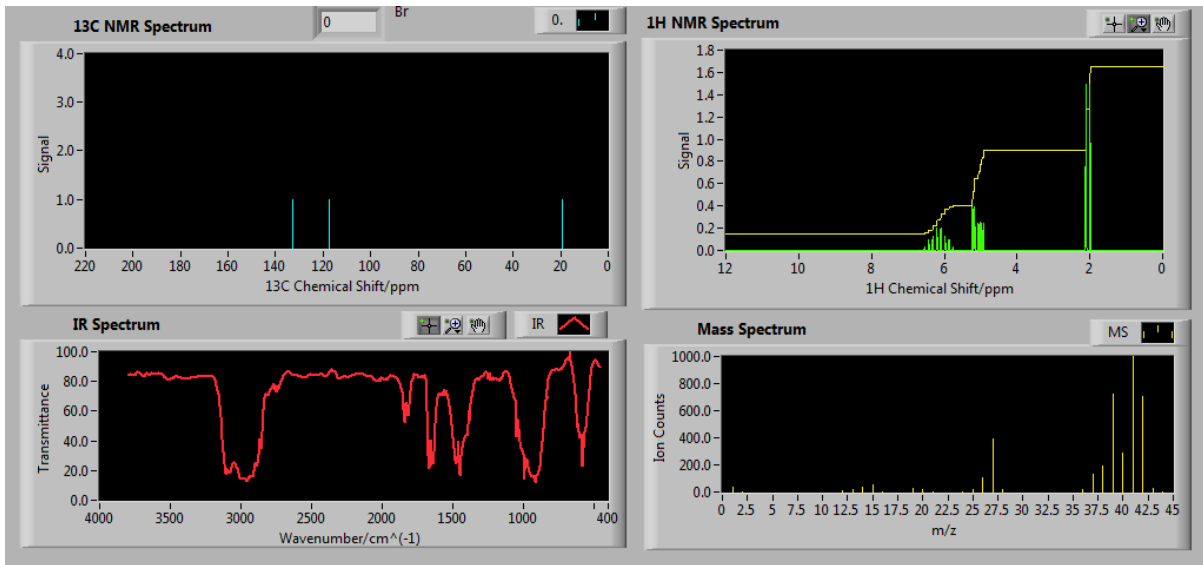
## CHEMICAL NUMBER = 16



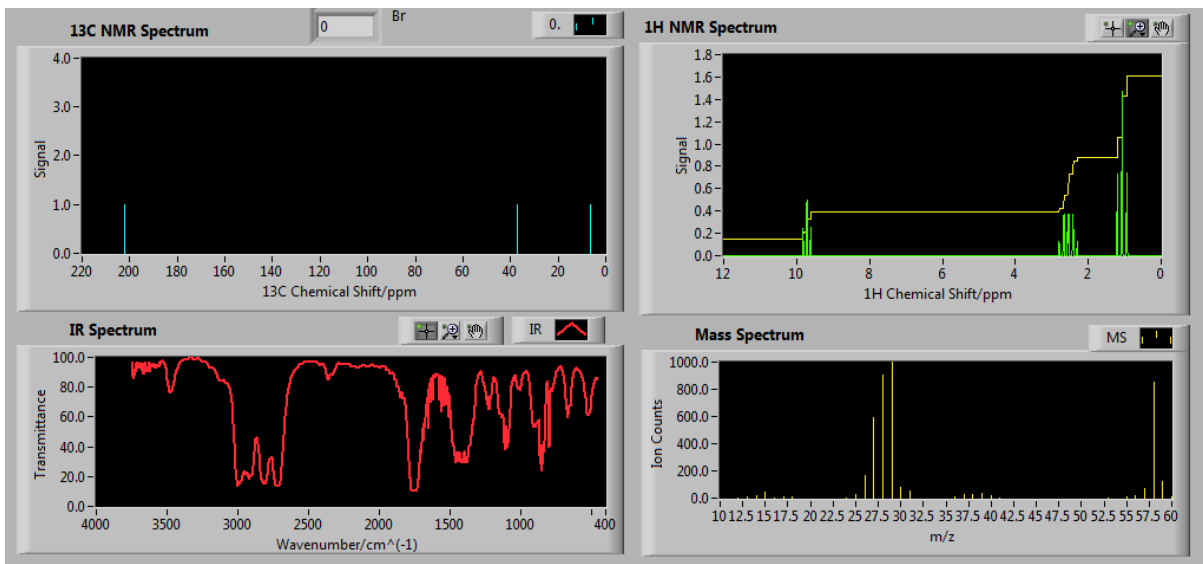
## CHEMICAL NUMBER = 49



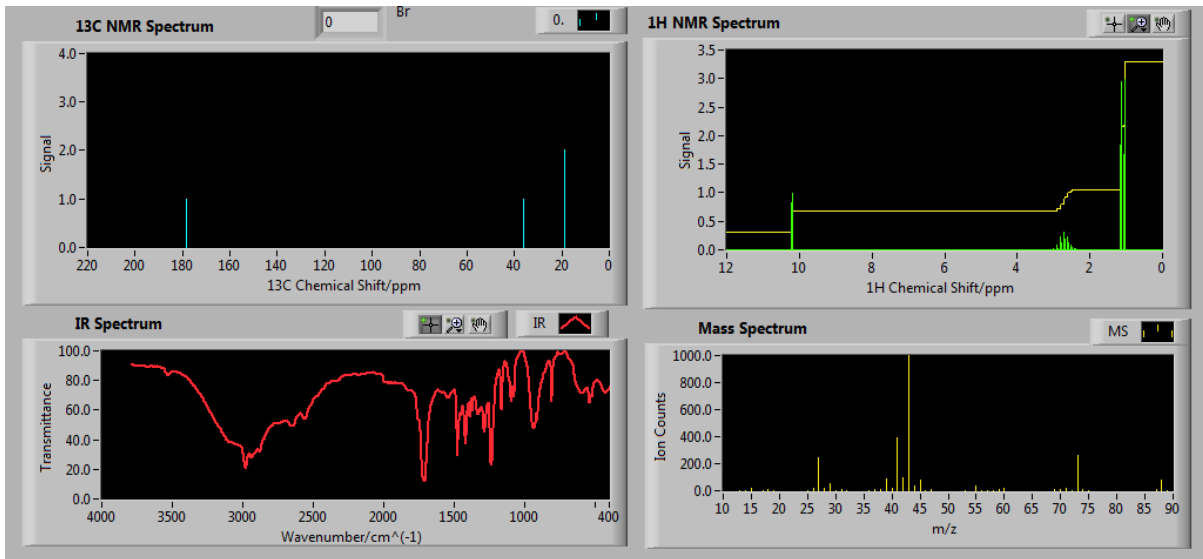
## CHEMICAL NUMBER = 52



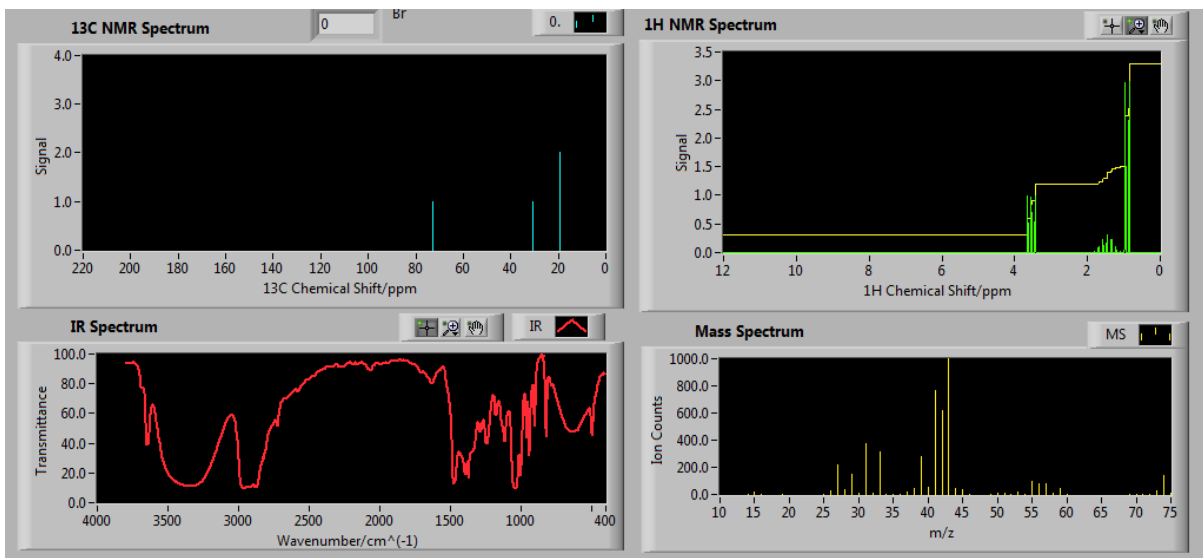
## CHEMICAL NUMBER = 56



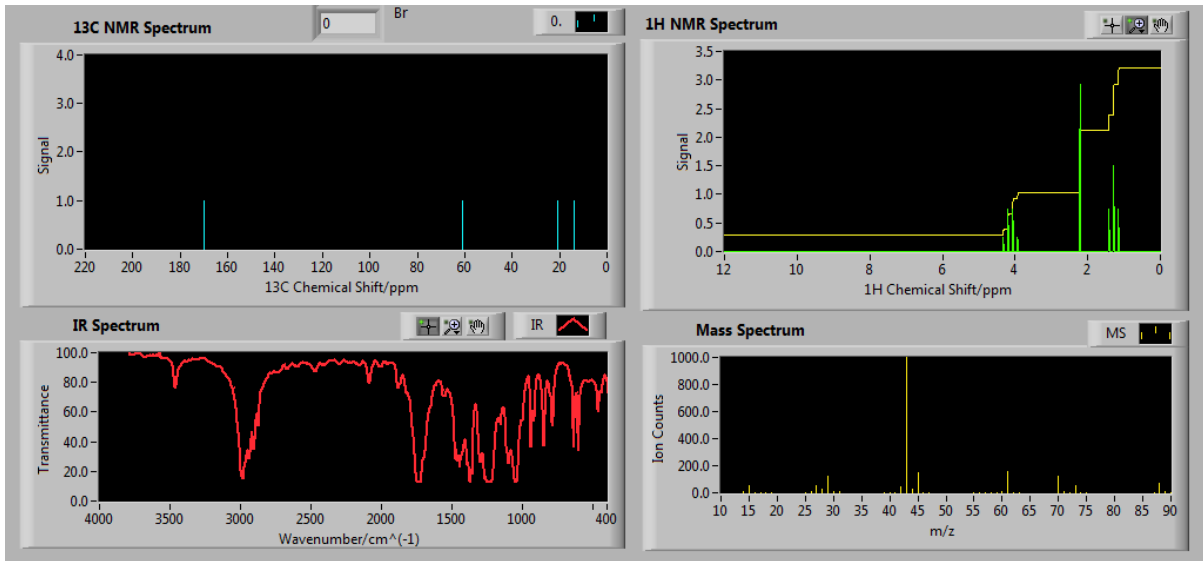
## CHEMICAL NUMBER = 63



## CHEMICAL NUMBER = 65

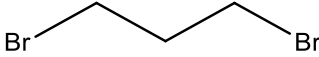
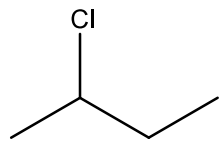
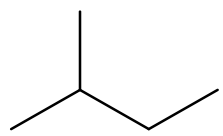
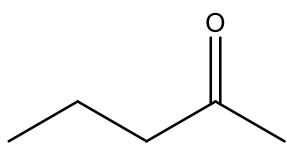
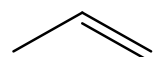
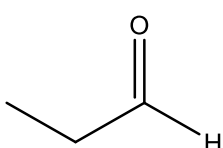
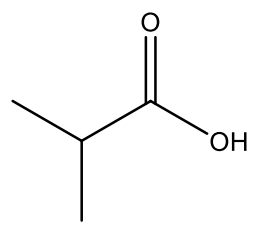
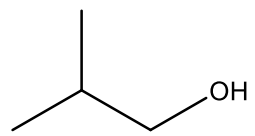
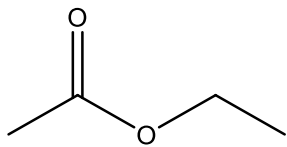


# CHEMICAL NUMBER = 81



## ANSWERS

\* Name not required at VCE level

| Systematic Name        | Chemical Number | Functional Group | Structure   |
|------------------------|-----------------|------------------|---|
| 1,3-dibromopropane     | 2               | Halogen          |    |
| 2-chlorobutane         | 14              | Halogen          |    |
| 2-methylbutane         | 16              | Hydrocarbon      |    |
| Pentan-2-one*          | 49              | Ketone           |    |
| Prop-1-ene             | 52              | Hydrocarbon      |   |
| Propionaldehyde*       | 56              | Aldehyde         |  |
| 2-methylpropionic acid | 63              | Carboxylic acid  |  |
| 2-methylpropan-1-ol    | 65              | Alcohol          |  |
| Ethyl acetate          | 81              | Ester            |  |